

- Wave Speed = Frequency x Wavelength
 - $v = f\lambda$
- Time Period = 1 / Frequency
 - $T = \frac{1}{f}$
- Frequency (f) = 1 / Period
 - $f = \frac{1}{T}$
 - Audible frequencies 20Hz to 20 000Hz

- Refractive Index = Speed of light in vacuum / Speed of light in the medium
 - $n = \frac{c}{v}$
 - $n = \frac{\sin(i)}{\sin(r)}$
- Critical angle C
 - $n = \frac{1}{\sin(C)}$
- Speed of light $c = 3.0 \times 10^8 \text{ m/s}$ in vacuum and proximately the same in air
- Speed of sound in air $330 \sim 350 \text{ m/s}$